



**SHORT VERSION – ENVIRONMENTAL
PRODUCT DECLARATION ACC. TO EN 15804**

LAMILUX Glass Roof PR60 | Smoke Lift Glass Roof PR60



Programme operator and publisher
ift Rosenheim GmbH

Created in cooperation with

brands & values®

Environmental Product Declaration (EPD)

Short version

Declaration code: EPD-GA-GB-11.3



LAMILUX Heinrich
Strunz GmbH

Glass architecture

Glass Roof PR60 and Smoke Lift Glass Roof PR60



Basis:

DIN EN ISO 14025
EN15804

company-EPD
Environmental
Product Declaration

Date of issue:
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13.05.2024





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Programme operator	ift Rosenheim GmbH Theodor-Gietl-Straße 7-9 83026 Rosenheim		
Practitioner of the LCA	brands & values GmbH Vagtstr. 48/49 28203 Bremen		
Declaration holder	LAMILUX Heinrich Strunz GmbH Zehstraße 2 95111 Rehau		
Declaration code	EPD-GA-GB-11.3		
Designation of the declared product	LAMILUX Glass Roof PR60 and Smoke Lift Glass Roof PR60		
Scope	Glass roof structure for increased daylight incidence and natural ventilation and extraction.		
Basis	This EPD was compiled in accordance with EN ISO 14025:2011 and EN 15804:2012+A1:2013 erstellt. In addition the Guidance on preparing type III Environmental Product Declarations is valid. The Declaration is based on the PCR document "PCR Teil A" PCR-A-0.1:2018 and "Fassaden und Dächer aus Glas und Kunststoff" (facades and roofs made of glass and plastic) PCR-FA-3.1:2018.		
Validity	Publication date: 13.05.2019	Last revision: 13.05.2019	Next revision: 13.05.2024
	This verified company Environmental Product Declaration applies solely to the specified products and is valid for a period of 5 years from the date of publication in accordance with DIN EN 15804.		
LCA basis	The LCA was prepared in accordance with EN ISO 14040 and DIN EN ISO 14044. The base data include both data collected the LAMILUX Heinrich Strunz GmbH production site and the generic data derived from the "GaBi 6" database. LCA calculations were based on the "cradle to gate with options" life cycle including all upstream processes (e.g. raw materials extraction, etc.).		
Notes on publication	The "Conditions and Guidance on the Use of ift Test Documents" apply. The declaration holder assumes full liability for the underlying data, certificates and verifications.		
			
Prof. Ulrich Sieberath Director of institute	Dr.-Ing. Carolin Roth External verifier		

Note: Use the extended version of the EPD for further information.

Short version

Results per m ² Glass Roof PR60 (Part 1 of 2)										
Environmental impacts	unit	A1-A3	A4	A5	B2	B3	C2	C3	C4	D
Global warming potential	kg CO ₂ -equiv.	232,00	9,40	71,2	0,40	21,70	0,15	10,60	0,12	-77,40
Depletion potential of stratospheric ozone layer	kg R11-equiv.	4,15E-07	1,98E-13	7,32E-13	1,55E-11	9,95E-08	3,19E-15	1,72E-07	7,60E-12	-3,46E-07
Acidification potential of soil and water	kg SO ₂ -equiv.	1,26	3,96E-02	8,95E-03	8,60E-04	7,08E-02	6,09E-04	1,62E-02	4,95E-04	-0,43
Eutrophication potential	kg PO ₄ ³⁻ -equiv.	0,13	1,01E-02	2,38E-03	1,49E-04	5,44E-03	1,55E-04	8,80E-03	6,86E-05	-4,47E_02
Formation potential of tropospheric ozone	kg C ₂ H ₄ -equiv.	8,16E-02	-1,52E-02	2,13E-03	1,12E-04	5,88E-03	-2,32E-04	9,78E-04	4,76E-05	-2,55E-02
Depletion of abiotic resources (ADP elements)	kg Sb-equiv.	9,36E-04	9,80E-07	9,23E-07	8,24E-08	4,98E-04	1,58E-08	1,11E-05	3,24E-08	-6,01E-04
Depletion of abiotic resources (ADP fossil fuels)	MJ	3570,00	127,00	17,60	16,50	277,00	2,03	35,50	1,24	-1070,00
Use of resources	unit	A1-A3	A4	A5	B2	B3	C2	C3	C4	D
Renewable primary energy as energy source	MJ	634,00	8,55	799,00	0,25	45,80	0,14	4,61	0,14	-128,0
Renewable primary energy for material use	MJ	796,00	0,00	-796,00	0,00	0,00	0,00	0,00	0,00	0,00
Total use of renewable primary energy	MJ	1430,00	8,55	3,04	0,25	45,80	0,14	4,61	0,14	-128,0
Non-renewable primary energy as energy source	MJ	4000,00	127,00	19,20	16,70	314,00	2,04	178,00	1,28	-1210,00
Non-renewable primary energy for material use	MJ	124,00	0,00	0,00	0,00	0,00	0,00	-124,00	0,00	0,00
Total use of non-renewable primary energy	MJ	4120,00	127,0	19,20	16,70	314,00	2,04	54,30	1,28	-1210,00
Use of secondary materials	kg	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-8,67E-03
Renewable secondary fuels	MJ	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Non-renewable secondary fuels	MJ	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Use of fresh water resources	m ³	2,54	9,91E-03	0,16	7,31E-04	0,13	1,59E-04	19,10	-5,83E-05	-0,27
Waste categories and output material flows	unit	A1-A3	A4	A5	B2	B3	C2	C3	C4	D
Disposed hazardous waste	kg	6,11E-04	8,14E-06	2,98E-08	5,15E-03	4,19E-05	1,31E-07	1,86E-06	1,67E-08	-3,52E-07
Disposed non-hazardous waste	kg	41,60	9,47E-03	2,55	1,04E-02	2,92	1,52E-04	1,25	5,15	-3,34
Radioactive waste	kg	0,22	1,53E-04	6,35E-04	6,30E-05	1,46E-02	2,46E-06	2,63E-04	1,88E-05	-5,57E-02
Components for further use	kg	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Materials for recycling	kg	0,00	0,00	0,00	0,00	0,00	0,00	58,30	0,00	0,00
Materials for energy recovery	kg	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Exported electrical energy	MJ	0,00	0,00	78,6	0,00	0,00	0,00	14,10	0,00	0,00
Exported thermal energy	MJ	0,00	0,00	184,00	0,00	0,00	0,00	25,40	0,00	0,00

Short version

Results per m ² Smoke Lift Glass Roof PR60 (Part 2 of 2)										
Environmental impacts	unit	A1-A3	A4	A5	B2	B3	C2	C3	C4	D
Global warming potential	kg CO ₂ -equiv.	260,00	5,18	0,00	0,36	21,70	0,14	29,40	0,19	-184,00
Depletion potential of stratospheric ozone layer	kg R11-equiv.	2,22E-07	1,10E-13	0,00	1,40E-11	9,95E-08	2,89E-15	1,56E-07	6,90E-12	-3,23E-07
Acidification potential of soil and water	kg SO ₂ -equiv.	1,11	2,18E-02	0,00	7,79E-04	7,08E-02	5,52E-04	1,86E-02	6,74E-04	-0,83
Eutrophication potential	kg PO ₄ ³⁻ -equiv.	0,12	5,56E-03	0,00	1,34E-04	5,44E-03	1,40E-04	8,33E-03	2,95E-04	-6,93E-02
Formation potential of tropospheric ozone	kg C ₂ H ₄ -equiv.	7,20E-02	-8,38E-03	0,00	1,01E-04	5,88E-03	-2,10E-04	1,09E-03	6,77E-05	-4,82E-02
Depletion of abiotic resources (ADP elements)	kg Sb-equiv.	1,43E-03	5,41E-07	0,00	7,46E-08	4,98E-04	1,43E-08	1,23E-05	4,74E-08	-6,29E-04
Depletion of abiotic resources (ADP fossil fuels)	MJ	2960,00	69,80	0,00	14,90	277,00	1,84	39,00	2,31	-2180,00
Use of resources	unit	A1-A3	A4	A5	B2	B3	C2	C3	C4	D
Renewable primary energy as energy source	MJ	612,00	4,72	0,00	0,23	45,80	0,12	5,19	0,22	-604,00
Renewable primary energy for material use	MJ	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Total use of renewable primary energy	MJ	612,00	4,72	0,00	0,23	45,80	0,12	5,19	0,22	-604,00
Non-renewable primary energy as energy source	MJ	2960,00	70,00	0,00	15,10	314,00	1,85	533,00	2,39	-2630,00
Non-renewable primary energy for material use	MJ	476,00	0,00	0,00	0,00	0,00	0,00	-476,00	0,00	0,00
Total use of non-renewable primary energy	MJ	3440,00	70,00	0,00	15,10	314,00	1,85	57,10	2,39	-2630,00
Use of secondary materials	kg	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-48,00
Renewable secondary fuels	MJ	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Non-renewable secondary fuels	MJ	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Use of fresh water resources	m ³	2,29	5,47E-03	0,00	6,62E-04	0,13	1,44E-04	17,30	-5,42E-05	-1,32
Waste categories and output material flows	unit	A1-A3	A4	A5	B2	B3	C2	C3	C4	D
Disposed hazardous waste	kg	5,52E-04	4,49E-06	0,00	4,66E-03	4,19E-05	1,18E-07	7,14E-06	2,05E-08	-1,32E-06
Disposed non-hazardous waste	kg	38,20	5,22E-03	0,00	9,45E-03	2,92	1,38E-04	2,73	5,84	-32,70
Radioactive waste	kg	0,19	8,46E-05	0,00	5,71E-05	1,46E-02	2,23E-06	6,67E_04	3,45E-05	-0,18
Components for further use	kg	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Materials for recycling	kg	0,00	0,00	0,00	0,00	0,00	0,00	52,10	0,00	0,00
Materials for energy recovery	kg	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Exported electrical energy	MJ	0,00	0,00	0,00	0,00	0,00	0,00	1,09	0,00	0,00
Exported thermal energy	MJ	0,00	0,00	0,00	0,00	0,00	0,00	2,66	0,00	0,00

Imprint

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Notes

This EPD is mainly based on the work and findings of the Institut für Fenstertechnik e.V., Rosenheim (ift Rosenheim) and specifically on the ift-Richtlinie NA-01/3 Allgemeiner Leitfaden zur Erstellung von Typ III Umweltproduktdeklarationen. (Guideline NA-01/3 - Guidance on preparing Type III Environmental Product Declarations).

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